480 SIII HEARN 1940 N.L.K IT WAY NEW PATTERN GENERATOR MKI Bericely ca / NOIT: THE DONE AT THE DEGRANAGE. 94703 MODULES! NOT ALC MODILES WERE 18VET, AND DESCRIPTIONS
1848-6121/481-5043 ARE NOT 100% CORPECT. - DILL HEARN 4/18/92

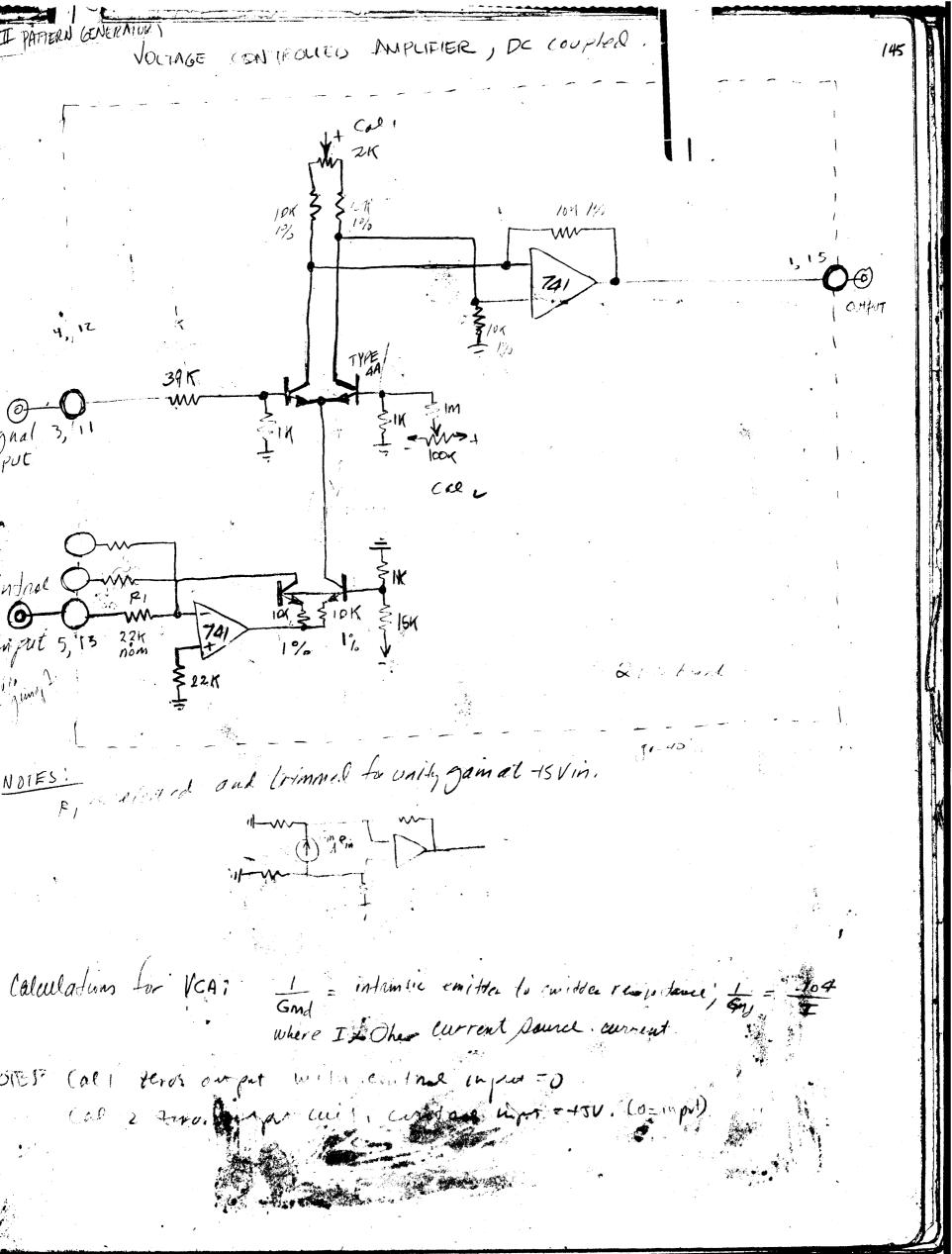
A module to be used in multiple; at least H required;

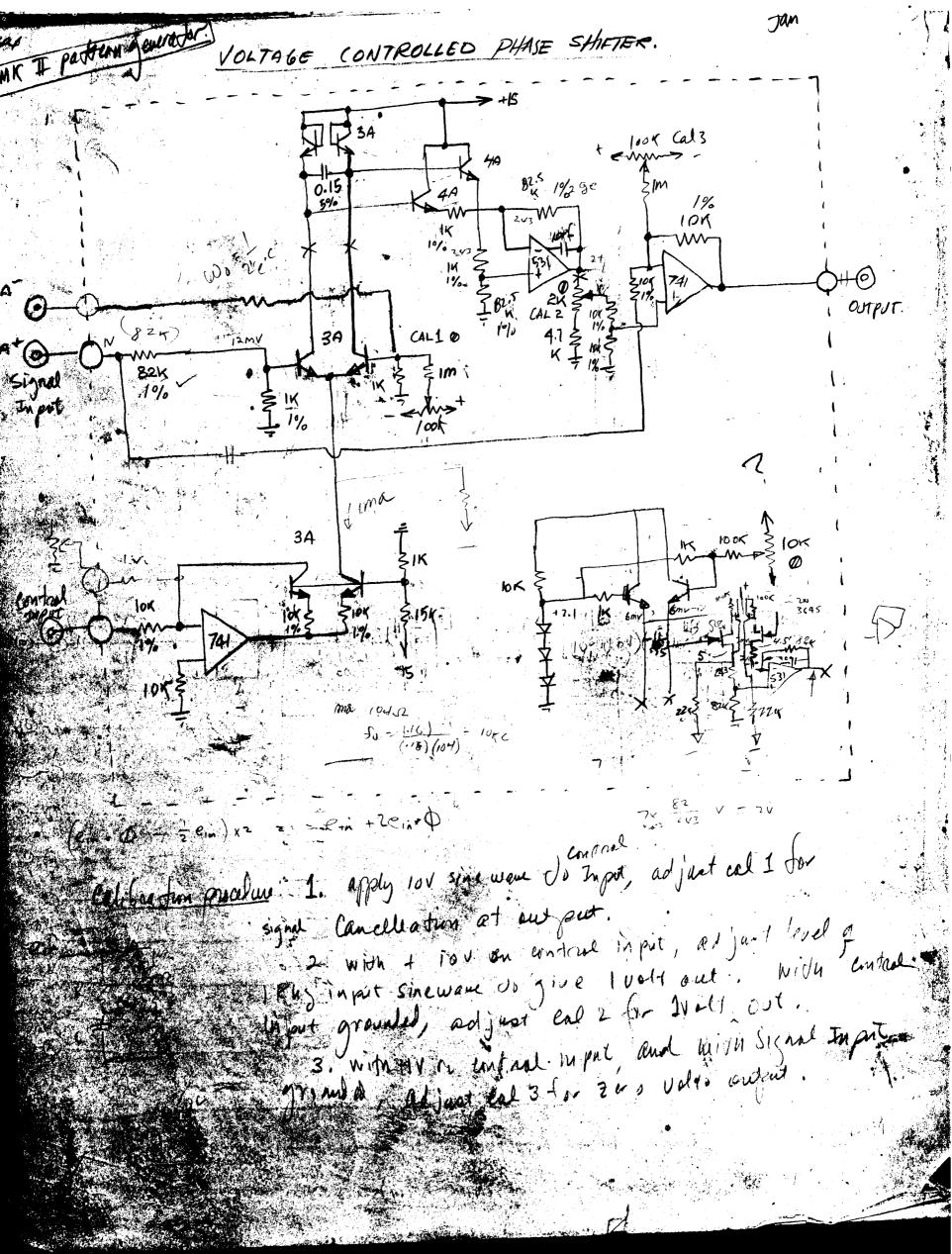
This module is tringered "on" either by an external; lagic edge

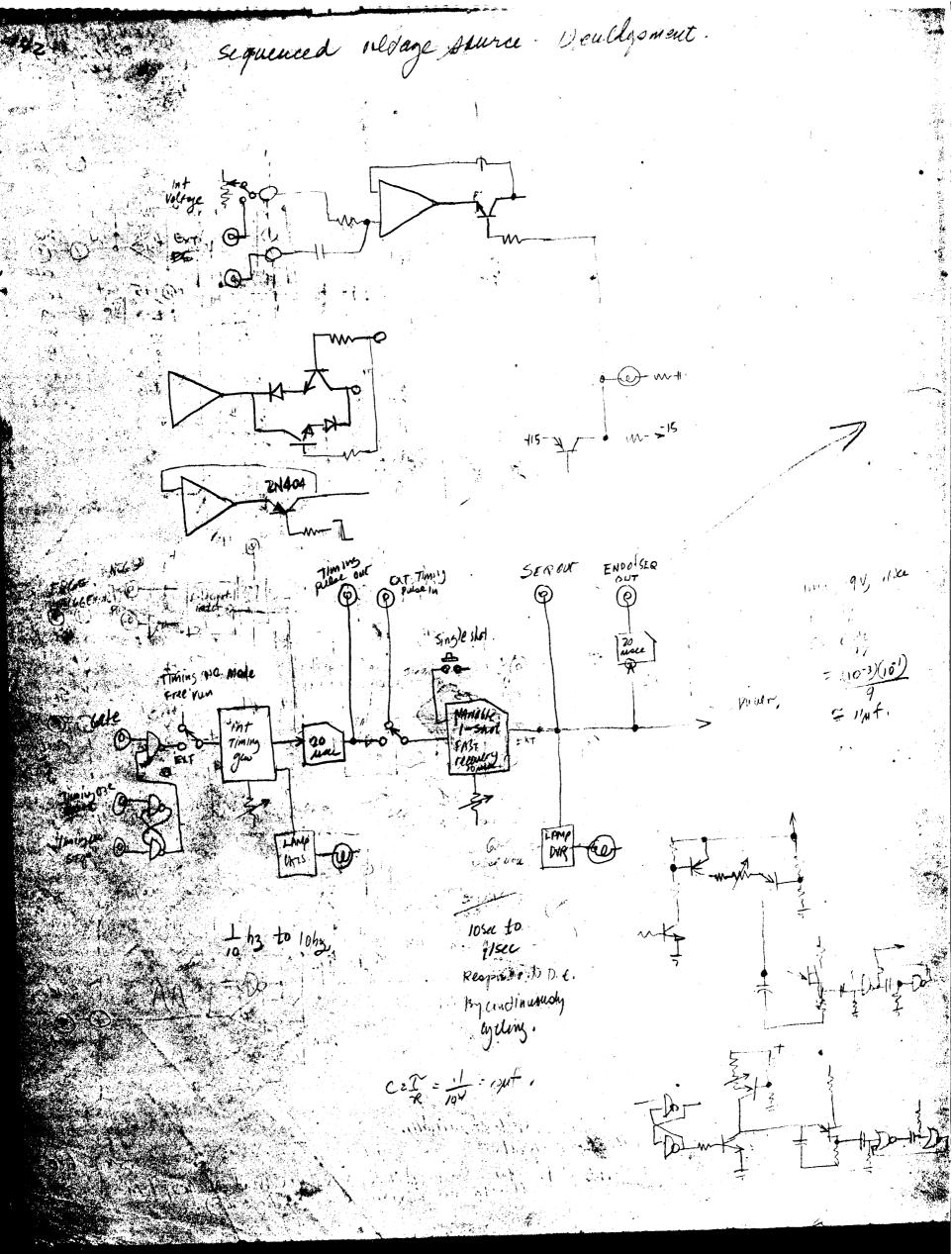
SEE MERIONS of King I is tringered "on" either by an external; lagic edge ordettel. it remains "on" either as long as the external level lasts EN PROBLEMENTER intil its. internal timing 1-shot Stays on. when it is "on" paranan opposite to pato out 10 individually set voltages between +10 and -10 THE Severage Volto. It also poto out a 20 user timing pulse when it turns on a 20 µ see pulse when It turns off, and a ""Level, indicating it is "o (1, 143, INSIDE) The 10 Analog outputs are arranged to present a very high source Impedance when "off" so that they may be "wire OR" Connected with other medules. The analog outputs may be pleated by a sur ten at each output Internally set usebye, or an externally applied valtage or signal. 2. Voltage cent rolled Function generador. (6 required) A function generator putting out sine, square, driangle, ramp, and pulse maneforms. Output frequency is propertional to ana in pur voltage 10 10 The man for m may be started at the phase by applying a timing pulses at the time the ostillator recieves The fining pulse, it sets The phase It ils mantform according do due valvage present at another analog Input. Fixed silver bank avides nevired spectrum into 8 Bonds, lower les Pairies two 4-input mixers for comb Filter patching. 12 Divisely untralled Added Subtractor, Jan Brillian Imputs, A + B. four logic inputs corresponding to A + B, A - B, -A + B, one American act put. The sum or difference of the three Analogue Voltarys expense at the output,

MK II Pattern gunrator (continued) Voltage consabled Amplifier. bain is conducted by an external analog voltage; 5 volts in corresponds to a gain of exactly 1. maximum gain is a b at 10 velto in gain is zero for inputo of two trans 100 millivalts. Voltage Condrolled phase shift frequency is directly proportional to an analog input level. (1063 to 10643) FOUR QUADRANT MULTIPLIER. switched. $e_{out} = e_1 \cdot e_2$ or $e_1 \cdot e_2$ Voltage Controlled MIXER. Do be used as out par mixer for X & J. has 24 signal Inpus and 24 control Inputo. Gain on each input is 1 for a control input of 5 volto. 1. Output arcuits; movement by means of Trystikes 1, Color of pice me help tron 8 voltage land solled Tinear enalogue gaura dan (with lamp Indicators) Brief profind to analy in put valdages. I Sequence is Initiated by truger pulse. Output Level is 45V. As with all control voltage sources, the output maybe wire In Mariette origger delay. Delays day ger puese on amount proportional band Waveforms. Waste to Hope consorted some internally adjustable grin-

MKII pattern generator. General Rules regative logic is used when patching between modules: This is so that all lagic connections may be Wire-or lonnered. The standard cogie is current since DTL; lonneded: au outputs are either resistive pullys it bare collector. 2. analog outputs on the pequences operate similarly to wire or logic, as expeased and previous page. Banana Jacks are color coded as follows. Make Miles autput Blue malor input. Black Digital Input White Objettel output. choix pulses are 50 microseconds long, always generated by - MODULES (cent.) AN INTERNACIALE VO Huge controlled muxer is a started was experienced for the contracted makes. was will die mice range on case Input; 4 ch. in, 2 pos, 2 int., 2 ca the section channel Variety Vellege Parise.







SE DUENCEN OPENSOIPA:

To set upa 6-stage 10 output Sequencer, first make a

Ting course by parening "Eos out" of modele lean module

(next to red better)

To the "Ext Timing prise IN" input of the Middle below it (This Jack

1's not leveled, but is to the right of the "Timing Source" Switch)

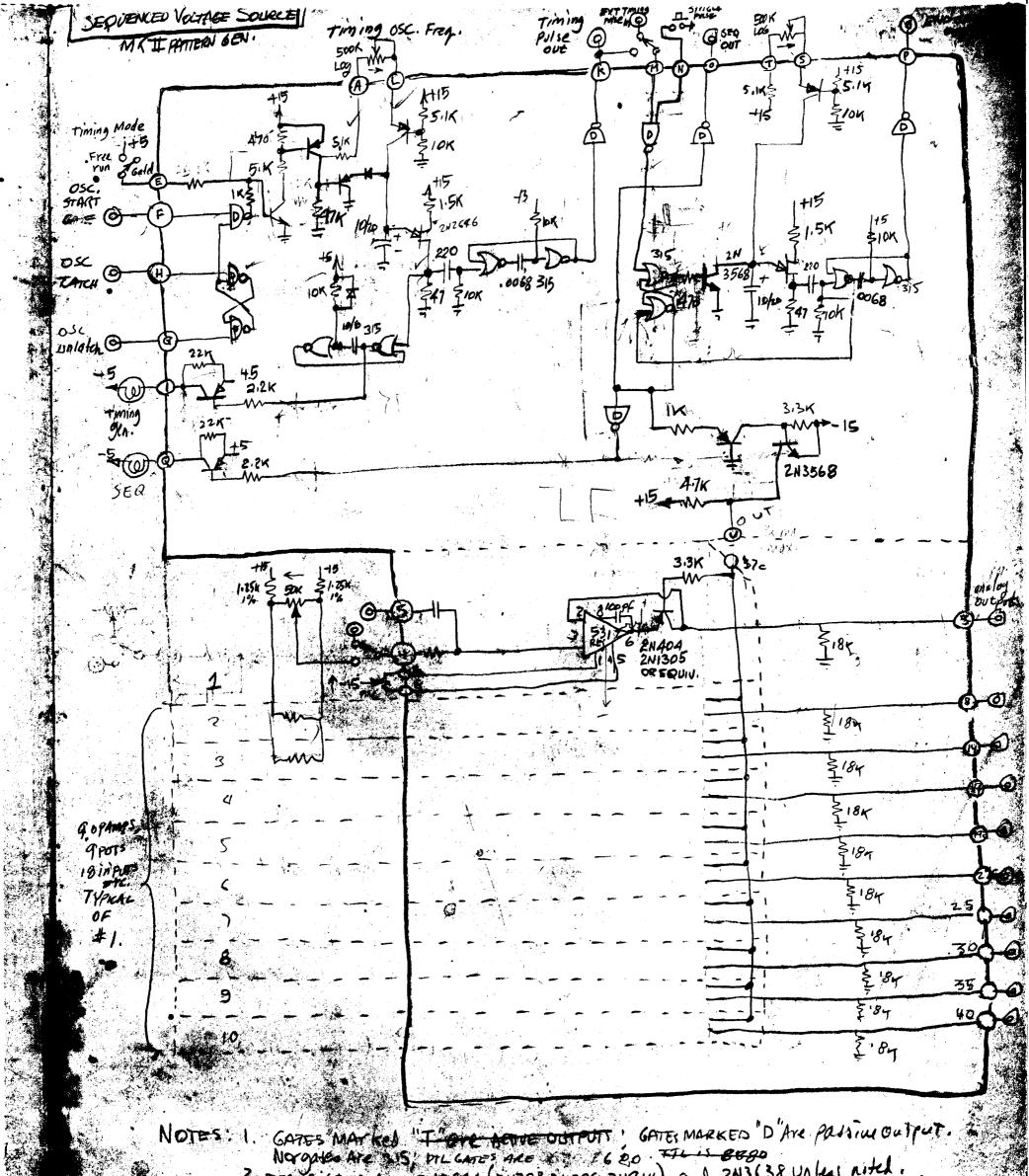
The "ERT TIMING pulse IN" inpur of the top stage. You can now Start the Sequencer by pressing the top red busson. ADJUST DUKBOTON by "DURATION" consider of land section.

NOW, Analog Voltages will appear at the red jacks on the right of the panel.

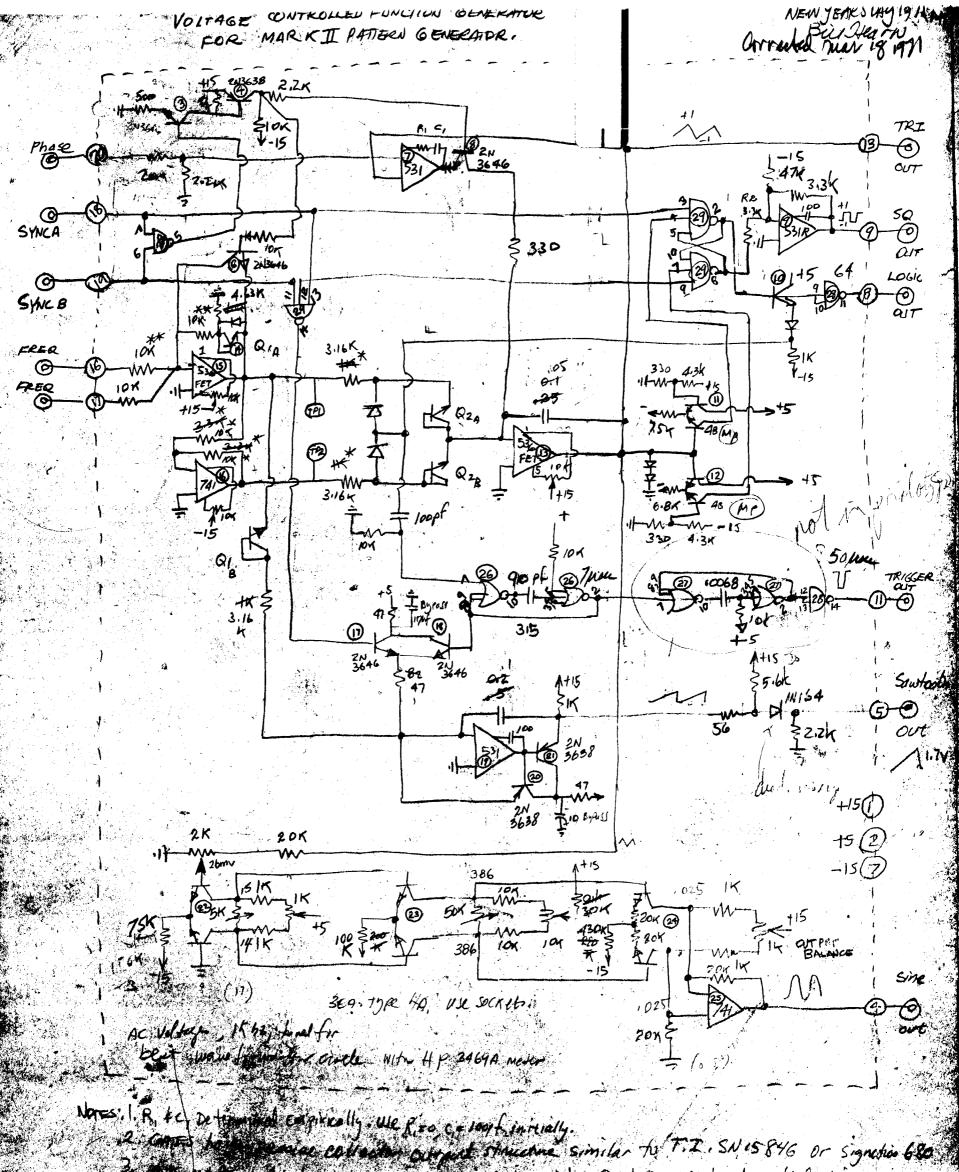
You Pan "Wike OR" Twese voltages by connecting them
In perilled. IN This case, the voltage par out will
ome from the Pow of Knows whose "SER" light is on.

You will need 50 Ever 4" molder, Starking banana Cords to get to sequences voltage, 6 tours states.

; ;



2. TRENS IS THUS ACR THIS EAC (2N708, 2N705, 2N914) and 2N3(38 Unless nitch



2 come to the service consider output structure similar to T.Z. SN 15846 or signation 680 and transistors Q, + Quere hand-mother,

